R.O. Draft 11/15-2000 Contract No. 01-WC-20-1758

MEMORANDUM OF UNDERSTANDING BETWEEN THE U.S. BUREAU OF RECLAMATION

<u>AND</u>

THE U.S. FISH AND WILDLIFE SERVICE PROVIDING FOR

PROJECT AND ACQUIRED WATER SUPPLIES

<u>TO</u>

UNITS OF THE NATIONAL WILDLIFE REFUGE SYSTEM IN THE SAN JOAQUIN VALLEY

<u>AND</u>

THE NATIONAL WILDLIFE REFUGES IN THE TULARE LAKE BASIN

<u>OF</u>

CALIFORNIA

Table of Contents

Article No.		Page No.
	Preamble	1
	Explanatory Recitals	1-3
1	Definitions	4-7
2	Term of Contract	7
3	Water to be Made Available and	
	Delivered to the Contractor	8-10
4	Time for Delivery of Water	10-11
5	Point of Diversion, Measurement and Responsibility for	
	Distribution of Water	12
6	Pooling of Water Supplies	12-13
7	Transfers, Reallocations or Exchanges of Water	13-14
8	Temporary Reductions–Return Flows	14-15
9	Water Shortage and Apportionment	15-16
10	Rules and Regulations	16
11	Quality of Water	16-17
12	Use of Non-Project Facilities for Water Delivery	17
13	Opinions and Determinations	17-18
14	Water Conservation	18-20
15	Existing or Acquired Water Rights	20-21
	Signature Page	22
	Exhibit A	

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16	<u>OF</u>
17	CALIFORNIA
18	
19	THIS MEMORANDUM OF UNDERSTANDING (MOU), made this 19 day of
20	January , 2001, by and between THE UNITED STATES BUREAU OF RECLAMATION
21	(Reclamation), and THE U.S. FISH AND WILDLIFE SERVICE (Service), hereinafter called the
22	"parties," defines the parties' roles and responsibilities to meet the requirements of Section 3406(d) of
0.0	de Cartari Veller Durie et Innocessa et Autre Cortaine 20, 1002 Title VVVIV et Delle I. No. 102
23	the Central Valley Project Improvement Act of October 30, 1992, Title XXXIV of Pub. L. No. 102-
24	575 (CVPIA) which states, in pertinent part," the Secretary shall provide, either directly or through
~ 4	575 (CVTTA) which states, in pertinent part, the secretary shan provide, either directly of through
25	contractual agreements with other appropriate parties, firm water supplies of suitable quality to maintain
~ 0	confidence agreements with other appropriate parties, firm water supplies of suitable quanty to maintain
26	and improve wetland habitat areas on units of the National Wildlife Refuge System in the Central Valley
27	of California;"
28	EXPLANATORY RECITALS
29	WHEREAS, the United States has constructed and is operating the Central Valley
30	Project, California (Project), for diversion, storage, carriage, and distribution of the waters of the

Sacramento River, the American River, the Trinity River, and the San Joaquin River and their tributaries for the following beneficial uses, including, but not limited to, flood control, irrigation, municipal, domestic, industrial water service, the protection, restoration and enhancement of fish, and wildlife, and associated habitats in the Central Valley, the generation and distribution of electric energy, salinity control, and navigation; and

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WHEREAS, Reclamation and the Service are entering into this long-term MOU pursuant to Section 3406(d) of the CVPIA to make available and convey water supplies pursuant to this MOU for lands of the National Wildlife Refuge (NWR) System in the San Joaquin Valley, which include: Units of the San Luis NWR, San Luis, Kesterson, West Bear Creek (formerly West Gallo), Freitas, and East Bear Creek (formerly East Gallo), Merced NWR; and in the Tulare Lake Basin which includes Kern NWR and Pixley NWR; and WHEREAS, the wetlands of the Central Valley have declined to approximately 300,000 acres and these remaining wetlands provide critical wildlife habitat and other environmental benefits, and important recreational and educational opportunities; and

WHEREAS, the Bureau of Reclamation's 1989 Refuge Water Supply Report concluded that "... it is clear that each refuge requires a dependable supply of good quality water to facilitate proper wetland habitat management for the migratory birds of the Pacific Flyway and resident wildlife and flora."; and

WHEREAS, Section 3406(d) of the CVPIA requires the Secretary to provide firm water supplies of suitable quality, through long-term contractual agreements with appropriate parties, to maintain and improve certain wetland habitat areas in the Central Valley in furtherance of the objectives of the Central Valley Habitat Joint Venture and the Central Valley

Project to protect, restore and enhance fish and wildlife and associated habitats; and

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WHEREAS, the directives of Section 3406(d) of the CVPIA have been carried out through a cooperative and collaborative effort between the Bureau of Reclamation and Fish and Wildlife Service, acting for the Secretary of the Interior, the California Department of Fish and Game, the Grassland Water District, and the Central Valley Habitat Joint Venture partners; and this cooperative and collaborative effort is expected to continue; and

WHEREAS, Reclamation intends to use Project facilities, in part, to provide firm water supplies of suitable quality to maintain and improve the Refuges; and

WHEREAS, the Service has demonstrated to the satisfaction of Reclamation that the Service has fully utilized the water supplies available to it for reasonable and beneficial use for fish and wildlife preservation and enhancement (wetland management) and/or Reclamation has concluded through the Bureau of Reclamation's 1989 Refuge Water Supply Report and the San Joaquin Basin Action Plan/Kesterson Mitigation Action Plan Report that the Service has projected future demand for water use such that the Service has the capability and expects to fully utilize for reasonable and beneficial use the quantity of water to be made available to it pursuant to this MOU; and

WHEREAS, Reclamation and the Service are willing to execute this MOU pursuant to subsection 3406(d) of the CVPIA on the terms and conditions set forth below;

NOW, THEREFORE, in consideration of the mutual and dependent covenants herein contained, it is hereby mutually agreed by the parties hereto as follows:

7 1 <u>DEFINITIONS</u>

72	1. When used herein unless otherwise distinctly expressed, or manifestly incompatible
73	with the intent of the parties or expressed in this MOU, the term:
74	(a) "Calendar Year" shall mean the period January 1 through December 31, both
75	dates inclusive;
76	(b) "Service's Boundary" shall mean the Refuge(s) to which the Service is
77	permitted to provide Delivered Water under this MOU as identified in Exhibit "A". Exhibit "A" may be
78	revised without amending this MOU upon mutual agreement of the Service and Reclamation;
79	(c) Omitted
80	(d) "Critically Dry Year" shall mean any Year in which either of the following
81	eventualities exists:
82	(1) The forecasted full natural inflow to Shasta Lake for the current water
83	year (October 1 of the preceding Calendar Year through September 30 of the current Calendar Year),
84	as such forecast is made by Reclamation, on or before February 20, and reviewed as frequently
85	thereafter as conditions and information warrant, is equal to or less than 3,200,000 acre feet: or
86	(2) The total accumulated actual deficiencies below 4,000,000 acre-feet in
87	the immediately prior water year or series of successive prior water years, each of which had inflows of

For the purpose of determining a Critically Dry Year, the computed inflow to Shasta Lake under present upstream development above Shasta Lake shall be used as the full natural inflow to Shasta Lake. In the event that major construction completed above Shasta Lake materially

less than 4,000,000 acre-feet, together with the forecasted deficiency for the current water year exceed

800,000 acre-feet;

93	alters the present regimen of the stream systems contributing to Shasta Lake, the computed inflow to			
94	Shasta Lake used to define a Critically Dry Year will be adjusted to eliminate the effect of such material			
95	alterations.			
96	After consultation with the State, the National Weather Service, and other			
97	recognized forecasting agencies, Reclamation shall select the forecast to be used and will make the			
98	details of it available to the Service. The same forecast used by Reclamation for operation of the			
99	Project shall be used to make forecasts hereunder.			
100	(e) "CVPIA" shall mean the Central Valley Project Improvement			
1 O 1	Act, Title XXXIV of the Act of October 30, 1992 (106 Stat. 4706);			
102	(f) "Delivered Water" shall mean the Level 2 Water Supplies and the Incremental			
103	Level 4 Water Supplies diverted by the Service pursuant to this MOU at the Point(s) of Delivery in			
104	accordance with Article 4(c) of this MOU;			
105	(g) "Hydrologic Circumstances" shall mean the conditions described in subdivision			
106	(d) of this Article;			
107	(h) "Incremental Level 4 Water Supplies" shall mean the difference between the			
108	Level 2 Water Supplies and the Level 4 Water Supplies depicted in Exhibit "B";			
109	(i) "Level 2 Water Supplies" shall mean the quantities of water referred to in			
110	section 3406 (d)(1) of the CVPIA and depicted in Exhibit "B"of this MOU;			
1 1 1	(j) "Level 4 Water Supplies" shall mean the quantities of water referred to in			
112	section 3406 (d)(2) of the CVPIA and depicted in Exhibit "B" of this MOU;			

"Non-Project Facilities" shall mean any non-Project water conveyance or

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(k)

1 1	4	storage facilities;
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- 1 1 5 (l) "Non-Project Water" shall mean water or water rights, other than "Project Water", acquired, appropriated by, transferred to or assigned to the Service or, transferred to the United States for delivery to one or more of the Service's Refuges, as identified in Exhibit "B";
 - (m) "Point(s) of Delivery" shall mean the location(s) established and revised pursuant to Article 5(a) of this MOU, at which Level 2 Water Supplies of Project Water and Incremental Level 4 Water Supplies are deemed to be delivered to the Service and at which the Service shall assume the responsibility for the further control, carriage, handling, use, disposal or distribution of such water supplies so long as such water supplies are being used in accordance with the terms and conditions of this MOU;
 - (n) "Project" shall mean the Central Valley Project owned by the United States and managed by the Department of the Interior, Bureau of Reclamation;
 - (o) "Project Water" shall mean all water that is developed, diverted, stored, or delivered by the Secretary in accordance with the statutes authorizing the Central Valley Project and in accordance with the terms and conditions of applicable water rights acquired pursuant to California law;
 - (p) "Refuge(s)" shall mean the lands in the units of the National Wildlife Refuge

 System in the Central Valley of California; Gray Lodge, Los Banos, Volta, North Grasslands and

 Mendota state wildlife management areas; and the Grassland Resource Conservation District all

 identified in the Refuge Water Supply Report and the land(s) identified in the San Joaquin Basin Action

 Plan/Kesterson Mitigation Action Plan Report prepared by the Bureau of Reclamation as set forth in

135	Section 3406(d) of the CVPIA and/or as revised in accordance with subdivision (b) of this Article;
136	(q) "Refuge Water Supply Report" shall mean the report issued by the Mid-Pacific
137	Region of the Bureau of Reclamation of the United States Department of the Interior entitled "Report
138	on Refuge Water Supply Investigations, Central Valley Hydrologic Basin, California" (March 1989);
139	(r) "Secretary" shall mean the Secretary of the Interior, a duly appointed
140	successor, or an authorized representative acting pursuant to any authority of the Secretary through any
1 4 1	agency of the Department of the Interior;
142	(s) "Year" shall mean the period from and including March 1 of
143	each Calendar Year through the last day of February of the following Calendar Year;
144	TERM OF MOU
145	2. (a) This MOU shall be effective on March 1, 2001 and shall remain in effect
146	through February 28, 2026.
147	(b) Upon request by the Service, this MOU shall be renewed for successive periods of
148	twenty-five (25) years each, subject to the terms and conditions mutually agreeable to the parties. The
149	Service shall request renewal of the MOU at least two (2) years prior to the date on which this MOU

WATER TO BE MADE AVAILABLE AND DELIVERED TO THE SERVICE

expires.

3. (a) During each Year, consistent with State water rights, permits and licenses, federal law, and subject to the provisions set forth in Articles 8 and 9 of this MOU, Reclamation shall make available at the established Point(s) of Delivery, and/or convey to the Service the maximum

quantities of Project Water and Non-Project Water, respectively, required to provide each of the Refuges with the Level 2 Water Supplies set forth in Exhibit "B" and the Incremental Level 4 Water Supplies set forth in Exhibit "B". The quantities of Level 2 Water Supplies and Incremental Level 4 Water Supplies made available and/or conveyed to the Service shall be scheduled in accordance with the provisions of Article 4 of this MOU; Provided, that, Section 3406(d)(2) of the CVPIA provides that the Incremental Level 4 Water Supplies shall be acquired in cooperation with the State of California and in consultation with the Central Valley Habitat Joint Venture and other interests in cumulating increments of not less than ten percent per annum, from the date the CVPIA was enacted, through voluntary measures which include, but are not limited to, water conservation, conjunctive use, purchase, lease, donations, or similar activities, or a combination of such activities which do not require involuntary reallocation of Project yield, water being provided as all or part of the Incremental Level 4 Water Supplies for each of the Refuges can be made available only to the extent that Reclamation is able to acquire the Incremental Level 4 Water Supplies from willing sources; Accordingly, Reclamation shall use its best efforts to acquire the Incremental Level 4 Water Supplies and shall coordinate acquisitions of Level 4 Water Supplies with acquisitions of Environmental Water Account (EWA) water pursuant to the Operating Principles Agreement, dated August 28, 2000, attached to the Record of Decision for the CALFED Bay-Delta Program, dated August 28, 2000, and/or other acquisitions of water for environmental purposes to ensure that acquisitions of Incremental Level 4 Water Supplies have a priority at least equal to acquisitions of EWA and/or other environmental water each year. Reclamation also agrees that the Interagency Refuge Management Team, created pursuant to Article 6 of this Contract, shall be included among the interests consulted in acquiring Incremental Level 4 Water

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176 Supplies.

- (b) The Service shall continue use of the Non-Project Water component of the Level 2 Water Supplies set forth in Exhibit "B" as long as such Non-Project Water remains available to the Service and is of suitable quality. In the event that such water supply is unavailable to the Service, or is not of suitable quality, subject to the provisions set forth in Articles 8 and 9 of this MOU, Reclamation shall deliver to the Service sufficient substitute Project Water to ensure that the quantities of Level 2 Water Supplies are available to the Service in accordance with subdivision (a) of this Article.
- (c) The Service shall comply with all requirements of any biological opinion(s) addressing the execution of this MOU developed pursuant to Section 7 of the Endangered Species Act of 1973, as amended, which are applicable to each of the Refuge(s) and comply with environmental requirements applicable to each of the Refuge(s) as may be required for specific activities.
- (d) The Service shall make reasonable and beneficial use of all Delivered Water furnished pursuant to this MOU consistent with the wetland habitat water management plan(s) described in Article 14 of this MOU.
- (e) In order to maximize water available to Refuges and better manage such water, the Service may request Reclamation's permission to reschedule a portion of the Level 2 Water Supplies and/or a portion of the Incremental Level 4 Water Supplies made available to the Service for use within the Service's Boundary during the current Year for use within the subsequent Year.

 Reclamation may permit such rescheduling in accordance with applicable law, and the then-current applicable rescheduling guidelines and policies. Upon execution of this MOU, Reclamation shall have adopted amendments to any applicable rescheduling guidelines and policies to provide for the

rescheduling of refuge water in accordance with this Article. After execution of this MOU and annually thereafter, Reclamation shall provide the Service with a copy of the then-current rescheduling guidelines and policies.

(f) Reclamation shall not interfere with the Service's right pursuant to Federal Reclamation law and applicable California law to the beneficial use of water furnished pursuant to this MOU so long as the Service fulfills all of its obligations under this MOU. A reduction in water supplies pursuant to Article 9 of this MOU shall not be deemed to constitute such interference.

TIME FOR DELIVERY OF WATER

- 4. (a) On or about February 20 of each Calendar Year, Reclamation shall provide the Service, in writing, with a preliminary forecast of whether the upcoming Year will be a Critically Dry Year; and, if a Critically Dry Year is forecast, the extent to which Level 2 Water Supplies to be made available to the Service during the upcoming Year are to be shorted pursuant to Article 9 of this MOU; and the amount of Incremental Level 4 Water Supplies estimated to be made available to the Service pursuant to this MOU for the upcoming Year. The forecast will be updated monthly, as necessary, based on then-current hydrologic conditions. Upon the request of the Service, Reclamation shall make available to the Service the data on which Reclamation relied to determine whether the Year in question will or will not be a Critically Dry Year and to determine the amounts of Level 2 Water Supplies and Incremental Level 4 Water Supplies to be made available to the Service pursuant to this MOU during a Critically Dry Year.
- (b) Based on the forecast(s) referred to in subdivision (a) of this Article, on or before March 1 of each Calendar Year, the Service shall submit to Reclamation a written schedule,

satisfactory to Reclamation, showing both the monthly and annual quantities of Level 2 Water Supplies and Incremental Level 4 Water Supplies to be delivered by Reclamation to each of the Refuges pursuant to this MOU. Each schedule shall be updated on a monthly basis to reflect actual use and remaining estimated needs.

(c) In accordance with subdivision (a) of Article 3 of this MOU, Reclamation shall make available and/or convey Level 2 Water Supplies and Incremental Level 4 Water Supplies for diversion by the Service at the Points of Delivery in accordance with the schedule submitted by the Service pursuant to subdivision (b) of this Article, or any written revision(s) thereto, mutually agreed to by Reclamation and the Service which are submitted to Reclamation within a reasonable time prior to the date(s) on which the requested change(s) is/are to be implemented.

POINT OF DIVERSION, MEASUREMENT AND RESPONSIBILITY FOR DISTRIBUTION

229 <u>OF WATER</u>

- 5. (a) The original Point(s) of Delivery shall be established by written mutual agreement of the Service and Reclamation. Such Point(s) of Delivery may be revised without amending this MOU upon written mutual agreement of Reclamation and the Service.
- (b) All water delivered to the Service pursuant to this MOU is to be measured at the Point(s) of Delivery to reflect the quantities of Level 2 Water Supplies and Incremental Level 4 Water Supplies delivered to the Service's Boundary. Upon the request of the Service or on Reclamation's own initiative, Reclamation shall investigate the accuracy of such measurements and the

parties will jointly take any necessary steps to adjust any errors appearing therein. For any period of time when accurate measurement has not been made, Reclamation shall consult with the Service prior to making a determination of the quantity of Delivered Water for that period of time. The Service shall advise Reclamation on or before the 10th calendar day of each month of the quantities of Level 2 Water Supplies and Incremental Level 4 Water Supplies taken during the preceding month at the Point(s) of Delivery.

(c) Reclamation shall not be responsible for the control, carriage, handling, use, disposal, or distribution of water delivered to the Service pursuant to this MOU beyond the Point(s) of Delivery specified in subdivision (a) of this Article.

POOLING OF WATER SUPPLIES

6. (a) Whenever the maximum quantities of Level 2 Water Supplies and/or the Incremental Level 4 Water Supplies depicted in Exhibit "B" are reduced pursuant to Article 9 of this MOU, the remaining Level 2 Water Supplies and/or the Incremental Level 4 Water Supplies may be pooled for use on other Refuge(s); Provided, that no individual Refuge shall receive more Level 2 Water Supplies than would have been made available to it absent a reduction pursuant to Article 9 of this MOU; or be reduced by more than twenty-five (25) percent; Provided further, that Reclamation makes a written determination that pooling of water for use on other Refuge(s) would not have an adverse impact, that cannot be reasonably mitigated, on Project operations, other Project Contractors, or other Project purposes; Provided further, that Reclamation determines that such reallocation is permitted under the terms and conditions of the applicable underlying water right permit and/or license; and Provided still further, that water made available under this MOU may not be scheduled for

delivery outside the Service's Boundary without prior written approval of Reclamation.

(b) An Interagency Refuge Water Management Team, to be chaired by

Reclamation and to be established upon execution of this MOU, shall be entitled to collaboratively

allocate the pooled water supplies and provide a schedule for delivery of the pooled supplies to meet
the highest priority needs of the Refuge(s) as depicted in Exhibit "B"; Provided, however, nothing in this

Article is intended to require the Service to pool the water supply provided for in this MOU. The

Interagency Refuge Water Management Team shall be composed of designees of the Bureau of

Reclamation, the United States Fish and Wildlife Service, the California Department of Fish and Game,
and the Grassland Water District.

TRANSFERS, REALLOCATIONS OR EXCHANGES OF WATER

7. Subject to the prior written approval of Reclamation, the Project Water made available under this MOU may be transferred, reallocated or exchanged in that Year to other Refuge(s) or Project contractors if such transfer, reallocation or exchange is requested by the Service and is authorized by applicable Federal and California State laws, and then-current applicable guidelines or regulations.

TEMPORARY REDUCTIONS--RETURN FLOWS

- 8. (a) Consistent with the authorized purposes and priorities of the Project and the requirements of Federal law, Reclamation shall make all reasonable efforts to optimize water deliveries to the Service as provided in this MOU.
- (b) The quantity of water to be delivered to the Service as herein provided may be temporarily discontinued or reduced when investigation, inspection, maintenance, repair, or replacement

of any of the Project facilities and/or Non-Project Facilities or any part thereof necessary for the delivery of water to the Service is required. Reclamation shall give and/or arrange to have the owner/operator of Non-Project Facilities give the Service due written notice in advance of such temporary discontinuance or reduction, except in case of an emergency, when no advance notice is possible, in which case Reclamation shall notify and/or arrange to have the owner/operator of the Non-Project Facilities notify the Service of said discontinuance or reduction as soon as is feasible; Provided, that Reclamation shall use its best efforts to avoid any discontinuance or reduction in such service.

Upon resumption of service after such reduction or discontinuance, and if requested by the Service, Reclamation will make all reasonable efforts, consistent with other obligations and operational constraints, to deliver the quantity of water which would have been delivered hereunder in the absence of such discontinuance or reduction.

(c) The United States reserves the right to all seepage and return flow water derived from Delivered Water which escapes or is discharged beyond the Service's Boundary;

Provided, that this shall not be construed as claiming for the United States any right to seepage or return flow being put to beneficial use pursuant to this MOU within the Service's Boundary by the Service or those claiming by, through, or under the Service.

WATER SHORTAGE AND APPORTIONMENT

9. (a) In a Critically Dry Year, Reclamation may temporarily reduce, for that Year, the availability of Level 2 Water Supplies up to twenty-five (25) percent of the maximum quantities set forth in Exhibit "B" whenever reductions due to Hydrologic Circumstances are imposed upon agricultural deliveries of Project Water; <u>Provided</u>, that such reductions shall not exceed in percentage

terms the reductions imposed on agricultural service contractors. The quantity of Non-Project Water available to one or more of the Refuges as part of its/their Level 2 Water Supplies may be reduced by more than twenty-five (25) percent in Years when the quantity of Project Water made available to the Service can be reduced by no more than twenty-five (25) percent. In such cases, Reclamation shall make up the supply difference with water supplies provided by Reclamation to ensure that Level 2 Water Supplies from all sources are not reduced by more than twenty-five (25) percent.

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(b) Reductions in the Level 2 Water Supplies to be made available to the individual Refuge(s) pursuant to this MOU, shall be imposed only in a Critically Dry Year. For the Incremental Level 4 Water Supplies provided from Non-Project Water and Project Water, reductions shall be imposed in accordance with the priority or priorities that were applied to such Non-Project Water and the shortages assigned to Project Water prior to its transfer or acquisition as Incremental Level 4 Water Supplies.

RULES AND REGULATIONS

10. The parties agree that the delivery of water pursuant to this MOU is subject to Federal Reclamation law, as may be amended and supplemented, as applicable, and the rules and regulations promulgated by the Secretary of the Interior under Federal Reclamation law.

QUALITY OF WATER

11. (a) Consistent with other legal obligations, the water delivered by Reclamation to the Service pursuant to this MOU shall be of suitable quality to maintain and improve wetland habitat areas and of comparable quality to water provided to other Project purposes within the same geographical areas; Provided, that Reclamation is under no obligation to construct or furnish water

treatment facilities to maintain or to improve the quality of the water furnished to the Service pursuant to this MOU. The quality of Delivered Water may be monitored by the Service at the Point(s) of Delivery on an as needed basis. Should Reclamation, in consultation with the Service, determine that the Level 2 Water Supplies and/or the Level 4 Water Supplies to be made available to the Service pursuant to this MOU during all or any part of a Year will not be of the quality that the Service feels is suitable to maintain and improve wetland habitat areas, the Service and Reclamation shall meet within 48 hours or at a time mutually agreeable to the parties and determine the appropriate actions necessary to identify and address the source of the water quality problems.

(b) The operation and maintenance of Project facilities shall be performed in such manner as is practicable to maintain the quality of raw water made available through such facilities at the highest level reasonably attainable as determined by Reclamation. The Service shall be responsible for compliance with all State of California and Federal water quality standards and directives applicable to surface return flows and subsurface agricultural drainage discharges generated within its boundaries arising from water conveyed to the Refuges pursuant to this MOU. This MOU does not create any obligation on Reclamation to provide drainage services.

<u>USE OF NON-PROJECT FACILITIES FOR WATER DELIVERY</u>

12. Any use of Non-Project Facilities, including use of State Water Project facilities pursuant to Joint Point of Diversion or other use of State Water Project facilities to deliver the water supplies provided for in the MOU, or any agreement for the use of such Non-Project Facilities, shall in no way alter the obligation of Reclamation to make available and deliver water supplies in accordance with all of the terms and conditions of this MOU. In addition, any costs incurred in the use of Non-

Project Facilities to deliver water supplies pursuant to this MOU shall be paid for in accordance with Section 3406(d)(3) of the CVPIA.

OPINIONS AND DETERMINATIONS

- 13. (a) Where the terms of this MOU provide for actions to be based upon the opinion or determination of either party to this MOU, said terms shall not be construed as permitting such action to be predicated upon opinions or determinations that are arbitrary, capricious or unreasonable. Both parties, notwithstanding any other provisions of this MOU, expressly reserve the right to seek relief from and appropriate adjustment for any such arbitrary, capricious, or unreasonable opinion or determination. Each opinion or determination by either party shall be provided in a timely manner. Nothing in this subdivision of this Article is intended to or shall affect or alter the standard of judicial review applicable under federal law to any opinion or determination implementing a specific provision of federal law embodied in statute or regulation.
- (b) Both parties to this MOU shall have the right to make determinations necessary to administer this MOU that are consistent with the provisions of this MOU, the laws of the United States and of California, and the rules and regulations promulgated by the Secretary of the Interior. Each party shall make such determinations in consultation with the other party to the extent reasonably practicable.

WATER CONSERVATION

14. (a) The Service shall prepare individual refuge wetland habitat water management plan(s) in order to ensure the effective use of water supplies to meet wetland resource needs and to meet the objectives of the Central Valley Habitat Joint Venture and the purposes of the CVPIA to

maintain and improve certain Central Valley wetland habitat areas. Criteria to prepare and evaluate refuge wetland habitat water management plan(s) shall be developed by the Interagency Refuge Water Management Team within one (1) year of the execution of this MOU, and reviewed and updated every five (5) years thereafter taking into consideration the provisions of the Interagency Coordinated Program Task Force report dated June 1998. The criteria shall include economically feasible water management measures which can improve the Services' efficient use of water in a manner appropriate for wetland and wildlife management, and shall also include time schedules for meeting the water use efficiency and conservation objectives. The criteria shall grant substantial deference to on-going state efforts related to wetlands water management and shall take into account the unique requirements associated with water use for the maintenance and enhancement of wetland and wildlife habitat. The Service shall make all reasonable efforts to complete the original wetland habitat water management plan(s) within one (1) year of the establishment of the criteria. Reclamation will review and determine if the wetland habitat water management plan(s) meet the established criteria for evaluating said plan within ninety (90) days of receipt of each plan.

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(b) Prior to the Service being afforded opportunities such as pooling and rescheduling of water supplies pursuant to Articles 3 and 6 of this MOU, the Service must be implementing a wetland habitat water management plan that has been determined by Reclamation to meet the established criteria developed pursuant to subdivision (a) of this Article for preparing and evaluating said plan. Continued pooling and rescheduling benefits pursuant to Articles 3 and 6 of this MOU shall be contingent upon the Service's continued implementation of such wetland habitat water management plans. In the event Reclamation determines the Service is unable to implement its wetland

habitat water management plan, due to circumstances beyond its control, the benefits of Articles 3 and 6 of this MOU shall be continued so long as the Service diligently works with Reclamation to obtain such determination at the earliest practicable date, and thereafter the Service begins implementing its wetland habitat water management plan immediately after the circumstances preventing implementation have ceased.

- (c) In the event that implementation of the wetland habitat water management plan(s) prepared pursuant to subdivision (a) of this Article results in water savings, all conserved water supplies may be transferred/reallocated, under the terms and conditions of this MOU, to other wetland, wildlife and fishery needs or to other Project contractors in accordance with the recommendations of the Interagency Refuge Water Management Team established pursuant to Article 6 of this MOU; Provided, that Reclamation makes a written determination that such transfer/reallocation of conserved water would not have an adverse impact, that cannot be reasonably mitigated, on Project operations, other Project Contractors or other Project purposes; Provided further, that the transfer/reallocation is requested by the Service and Reclamation determines that the transfer/reallocation is authorized by applicable laws, and then-current applicable guidelines and/or regulations.
- (d) The Service shall submit to Reclamation an annual update on the status of its implementation of the wetland habitat water management plan(s) for the previous Water Year.
- (e) At five (5) year intervals, the Service shall revise its wetland habitat water management plan(s), as necessary, to reflect the then-current criteria for preparing and evaluating said plans and submit such revised plan(s). Upon completion of such revised plan(s), the Service shall submit such revised plan(s) to Reclamation for review and so Reclamation can determine whether such

406 EXISTING OR ACQUIRED WATER OR WATER RIGHTS 15. Except as provided in subdivision (b) of Article 3, the exercise of existing water rights 407 408 by the Service, or its acquisition of additional water or water rights from other than the United States, 409 shall not alter the obligation of Reclamation to provide the maximum quantities of Level 2 Water 410 Supplies and Incremental Level 4 Water Supplies under subdivision (a) of Article 3 of this MOU. 4 1 1 IN WITNESS WHEREOF, the parties hereto have executed this MOU as of the day and year first 412 above written. 413 By: /s/ Lester Snow 414 Regional Director, Mid-Pacific Region APPROVED AS LEGAL 415 Bureau of Reclamation FORM AND SUFFICIENCY 416 /s/ James E. Turner OFFICE OF REGIONAL SOLICITOR 417

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plan(s) meet the then-current criteria.

DEPARTMENT OF THE INTERIOR

419	By:	/s/ Michael J. Spear
420		Manager, California, Nevada Operations Office
421		U.S. Fish and Wildlife Service